NC/PMC/W-04/2019-20/YN-K2

Date: 22-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.30	22.28	**22.87**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.39	23.40		
3	003	3.35	22.95		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.65	**4.59**
2	002	4.79	
3	003	4.34	

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NC/PMC/W-04/2019-20/YN-K3

Date: 23-04-2019

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.38	23.40	**22.61**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.27	21.84		
3	003	3.33	22.60		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.65	**4.56**
2	002	4.25	
3	003	4.80	

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NC/PMC/W-04/2019-20/YN-C2 **Date: 25-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**151 min**	Shall not be less than 30 min
2	Final setting time	**276 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.84 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.91 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.87 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/W-04/2019-20/YN-PCC1 **Date: 25-04-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	100.00	100.00
20mm	**98.65**	85-100	95 - 100
10mm	**31.90**	0 - 20	25 - 55
4.75mm	**7.40**	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**98.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**83.40**	60-95	75-100	85-100	
01.18	**59.05**	30-70	55-90	75-100	
600.mic	**46.90**	15-34	35-59	60-79	
300.mic	**21.60**	5-20	8-30	12-40	
150.mic	**7.25**	0-10	0-10	0-10	

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NC/PMC/W-04/2019-20/YN-C3 **Date: 29-04-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**276 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.07 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.11 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.14 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/W-04/2019-20/YN-PCC2

Date: 29-04-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100.00	100.00
20mm	95.10	85-100	95 - 100
10mm	51.75	0 - 20	25 - 55
4.75mm	6.20	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.15	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.70	60-95	75-100	85-100	
01.18	61.20	30-70	55-90	75-100	
600.mic	56.45	15-34	35-59	60-79	
300.mic	10.80	5-20	8-30	12-40	
150.mic	7.65	0-10	0-10	0-10	

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NC/PMC/W-04/2019-20/YN-C4 **Date: 02-05-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**271 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.97 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.90 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.87 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/W-04/2019-20/YN-PCC3 **Date: 02-05-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100.00	100.00
20mm	98.40	85-100	95 - 100
10mm	43.95	0 - 20	25 - 55
4.75mm	7.20	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.80	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.05	60-95	75-100	85-100	
01.18	74.60	30-70	55-90	75-100	
600.mic	38.95	15-34	35-59	60-79	
300.mic	13.10	5-20	8-30	12-40	
150.mic	7.45	0-10	0-10	0-10	

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NC/PMC/W-04/2019-20/YN-CS1 Date: 10-05-2019

TEST REPORT

Sub: Testing of Grey Colour Pre-cast Paver Blocks (Interlock) of thickness 60mm.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

Sl No	Identification	Compressive Strength, N/mm^2	Average Compressive Strength, N/mm^2
1	001	32.90	33.35
2	002	33.40	
3	003	33.75	

2. WATER ABSORPTION TEST:

Sl No	Identification	Water absorption %	Average value %
1	001	1.88	1.95
2	002	1.96	
3	003	2.02	

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NC/PMC/W-04/2019-20/YN-CS2 **Date: 14-05-2019**

TEST REPORT

Sub: Testing of Grey Colour Pre-cast Paver Blocks (Interlock) of thickness 60mm.
{Project*: Development of parks in ward no.4 Yelahanka New town.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Chowda Reddy. K.S, Bangalore.

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

Sl No	Identification	Compressive Strength, N/mm^2	Average Compressive Strength, N/mm^2
1	001	33.90	34.25
2	002	34.75	
3	003	34.10	

2. WATER ABSORPTION TEST:

Sl No	Identification	Water absorption %	Average value %
1	001	1.97	1.92
2	002	1.92	
3	003	1.88	

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